## STANFORD UNIVERSITY

MEDICAL CENTER
PALO ALTO, CALIFORNIA

DEPARTMENT OF GENETICS School of Medicine

April 13, 1962

DAvenport 1-1200 Cables STANMED

T0:

JL

FROM:

Gene

The 5 MT marker definitely linked to indole, may be near the ant (try,) locus, suggesting the possibility of an enzyme resistant to feed back inhibition. Enzymatic studies are underway to test this.

No positive results to report on the labeling by serine-3-C  $^{14}$ . The experiment was done using SB 19, since all of our "serine" mutants grow very poorly on the normal amounts of serine (10  $\mu g/ml$ ). The labeling was found in most amino acids derived from the Krebs cycle, with a considerable amount in histidine. (Due to "C-1" incorporation into the C-2 position?). The tryptophan was isolated in very low quantities, and not much radioactivity was associated with this peak. Unfortunately the serine was largely destroyed by the alkaline hydrolysis. We shall next add serine only during the log phase, together with unlabeled Krebs cycle amino acids, and do both an acid and alkaline hydrolysis on the same lot of protein.

on his

How does the specific actually in tryptoghome cayone with say histodine? Rather purposing, but pulsages should not attempt to integrit hope the repeter purment.

Hiroshima

JESTIK

- (2) Purepe resist to test is effect as anthrambe acid accurs.

  no mortant bloshed anth > inde, as anthrambe mily picked
  up by fluorescence. May be recetant to with by tryptogshme as
  well as 5 M T.
- (3) Is 5MT at same brus as his?

  How about relating MT in his sham does this about his

  Even wilder, is MT histodine sensitive?

  Also child special sensitivity to other amino aids?